REPORT OF THE UTILITIES DEPARTMENT

of

THE PUBLIC SERVICE COMMISSION OF SOUTH CAROLINA

DOCKET NO. 97-005-E
DUKE POWER COMPANY

REPORT OF UTILITIES DEPARTMENT SOUTH CAROLINA PUBLIC SERVICE COMMISSION

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DUKE POWER COMPANY

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REPORT OF UTILITIES DEPARTMENT SOUTH CAROLINA PUBLIC SERVICE COMMISSION

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DUKE POWER COMPANY

REPORT OF FUEL ADJUSTMENT ANALYSIS

Scope of Examination

The Commission's Utilities Department Staff analyzed the Company's procedures and practices pertaining to its fuel operation. Staff's examination consisted of the following:

- 1) Review of the Company's monthly fuel reports including:
 - a) Power Plant Performance Data Reports
 - b) Major Unit Outage Reports
 - c) Generation Mix
 - d) Generation Statistics
 - e) Retail Comparison of MWH Sales
 - f) Retail Comparison of Fuel Costs
 - 2) On-site inspection of the Company's coal quality sampling technique.
 - 3) Review of the Company's forecasting procedures.
 - 4) Review of the Company's currently approved Adjustment for Fuel Costs Rider.
 - 5) History of Cumulative Recovery Account
 - 6) Calculation of fuel costs to be included in the base rates June 1997 through May 1998.

REVIEW OF COMPANY'S MONTHLY FUEL REPORTS

The Company files with this Commission monthly reports that include power plant performance data, major unit outages, generation mix, and other reports that provide the Staff pertinent data on which to evaluate the Company's fuel operating expenses.

Reports for nuclear and base load fossil plants is shown on Exhibit No. 1. It includes a listing of capacity factors and equivalent availability factors for each unit by month for the period April 1996 through March 1997 and also includes the yearly capacity factors (1993-1996) and the lifetime (cumulative) capacity factor of the nuclear units. These factors are expressed as a percentage. This percentage figure can be a useful index when attempting to locate or identify a particular problem or unusual occurrence.

Pursuant to S.C. Code Ann. Section 58-27-865 (Supp. 1996) certain criteria are established for review of a utility's effort to minimize fuel expenses. In evaluating a utility's fuel costs under this section, it is necessary to examine and determine whether the utility has made every reasonable effort to minimize fuel costs associated with the operation of its nuclear generation "giving due regard to reliability of service, system while economical generation mix, generating experience of comparable and minimization of the total cost of providing facilities Staff also examined records to determine if the utility achieved an adjusted mimimum capacity factor for the period under of 92.5% for nuclear generation as required by the statute to presume cost minimization. With a reasonable refueling and

other outages the nuclear generation systems net capacity factor exceeded 92.5% for the period under review for this proceeding.

The Company's Nuclear Unit Outage Report considers each outage experienced by unit, giving the inclusive dates of the outage, hours down, type of outage (scheduled or forced), the reason for the outage and the corrective action taken. This information covers the period being considered in this proceeding and is shown in Exhibit No. 2A. Staff compiled this data through review of Company documents, NRC documents and interviews with Company personnel.

The Staff's Fossil Unit Outage Report is a listing of base load plants by unit, duration of outage (greater than 100 hours), reason for down time, and corrective action taken to return the plant to service. The information specifically reviewed for this proceeding is for the months of April 1996 through March 1997 and is included in Exhibit No. 2B. Staff did not observe any particular problem areas from its analysis of the fossil unit outages reported. These Units' Availability Factors were in the 90 plus percentile for the greater portion of this period.

Staff reviewed and compiled a percentage Generation Mix statistic sheet for the Company's fossil, nuclear and hydraulic plants for April 1996 through March 1997. The fossil generation ranged from a high of 78% to a low 45%. The nuclear generation ranged from a high of 51% to a low of 21%. The percentage of generation by hydro ranged from a high of 4% to a low of 1%. This information is included in Exhibit No. 3.

The Staff also collected and reviewed certain Generation

Statistics of Major Plants for the 12 months ending March 1997. This data is presented on Exhibit No. 4. This Exhibit shows the Company's major plants by name, type of fuel used, cost in cents per kilowatt-hour to operate and total megawatt-hours generated for the period. The nuclear fueled Catawba Plant was lowest in cost at 0.47 cents per kilowatt-hour. The highest amount of generation of 15,719,717 megawatt-hours was produced at the Catawba Nuclear Station.

Utilities Department Exhibit No. 5 shows a comparison of the Company's original retail megawatt-hour (MWH) estimated sales to the actual sales for the period from April 1996 through March 1997 (excluding December through March when data was not available). The original projections ranged from an under-estimate of 7.6% in July 1996 to an over-estimate of 5.2% in June 1996.

Utilities Department Exhibit No. 6 shows a comparison of the Company's original fuel cost projections to the costs actually experienced for the months of April 1996 through March 1997 (excluding December through March when data was not available). The original projections ranged from an over-estimate of 11.2% for September 1996 to an under-estimate of 22.7% for November 1996.

ON-SITE INSPECTION OF COMPANY'S COAL QUALITY SAMPLING TECHNIQUES

The Company's fuel sampling procedure for coal consists of identification of each train car by specific shipper, point of origin and producer. A sample is taken from each car while unloading and is then crushed and placed in a sealed container. The sample is then sent to the laboratory and analyzed for moisture,

ash, BTU and sulfur content. The results of this testing are used to determine the actual price the Company will pay for the coal it received. The price could vary from the contracted price depending upon whether the quality of the coal, such as BTU content, is higher or lower than the level stipulated in the agreement. Staff has observed the Company's procedure for fuel sampling and has found this procedure to be adequate at this time.

REVIEW OF THE COMPANY'S FORECASTING PROCEDURE

Staff reviewed the Company's methodology used to estimate fuel costs for this period. Total generation is developed by System Planning, and system sales and South Carolina retail sales are obtained from the Company's Forecasting Department. First the nuclear generation for each unit is estimated for each month in the period after considering any scheduled outages. Secondly hydro generation is estimated based on median hydro production. Next a small amount of generation is estimated from combustion turbines and also a small amount of purchased power is included. The balance of the generation comes from the Company's coal stations.

The generation is then priced, generally using current fuel costs. If a nuclear unit is being refueled, costs expected after the refueling are used for that unit.

REVIEW OF THE COMPANY'S CURRENTLY APPROVED RETAIL ADJUSTMENT FOR FUEL COSTS

The Staff has reviewed the Company's currently approved Retail Adjustment for Fuel Costs, and found it to continue to

operate properly with one exception. Staff recommends that a modification be made to the tarriff to delete "for the succeeding six months or shorter period" due to a change in the statute moving to a 12 month review of the Fuel Adjustment Clause. Exhibit No. 7 is a copy of the Company's currently approved Adjustment for Fuel Costs.

HISTORY OF THE CUMULATIVE RECOVERY ACCOUNT

Exhibit No. 8 is a history of the cumulative recovery account balances from inception in 1979 to March 1997.

CALCULATION OF BASE RATE FUEL COST COMPONENT FOR JUNE 1997 THROUGH MAY 1998.

Utilizing the currently projected sales and fuel cost figures for the period June 1997 through May 1998 and including projected under-recovery balance of \$13,475,572 in the cumulative recovery account through May 1997 (See Accounting the average fuel expense is estimated to be Exhibit G), 1.0145 cents per kilowatt-hour. Applying this fuel factor to the ending period estimated \$20,531 would create an period under-collection in the cumulative recovery account.

The Commission has consistently expressed its expectation that the Company exercise all reasonable prudence and efficiency in its fuel purchasing practices and aggressively control the operation and maintenance of its production facilities to assure the lowest fuel costs possible. Also, the Commission has directed the Staff to monitor the Company's plant operations and fuel

purchasing to insure that any inefficient or negligent practice is brought to the Commission's attention.

Exhibit No. 9 is a table of Projections of the Cumulative Recovery Account for various fuel base levels for the twelve month period ending May 1998. Also indicated in the table are the projected results using the current fuel factor base component and the Company's proposed factor of 1.000 cent/KWH.

DUKE POWER COMPANY

POWER PLANT PERFORMANCE DATA (2) REPORT

UNIT CAPACITY FACTOR	MA	LIFE	YEAR 1993	YEAR 1994	YEAR 1995	YEAR 1996	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	1996 1996	OCT N 1996 1	NOV DEC 1996 1996	· · ·	JAN E 1997 1	FEB N	MAR 1997
CATAWBA 1	1129	74	77	 ১	88	2	103	16	8	0	0	0	l	ļ		I	8	8
CATAWBA 2	1129	74	8	82	8	8	103	76	101	100	19	102	103	101 7	76 10	101	102	ಜ
MCGUIRE 1	1129	\$	አ	69	8	88	101	3	35	26	25	8					46	83
MCGUITRE 2	1129	9/	8	83	25	73	ដ	14	0	8	88	8					8	7
OCCINEE 1	97/8	23	88	83	88	75	101	101	덛	13	ጽ	8					82	덩
OCCINEE 2	846	74	\$	83	8	23	0	82	101	78	83	<i>L</i> 9					88	51
OCCINEE 3	97/8	74	8	9/	83	23	102	102	102	101	ಜ	13					0	শ্ৰ
TOTAL	7054	72	78	82	88	75	75	83	74	8	11	79	61	51 5	57 (3	73	2
											-							

EQUIVALENT AVALLABILLITY PACTOR RA	MW RATING	APR 1996	MAY 1996	JUN 1996	JUL 1996	AUG 1996	SEP 1996	1996	NOV 1996	DEC 1996	JAN 1997	FEB 1997	MAR 1997
BELEWS CREEK 1 BELEWS CREEK 2 CLIPPSIDE 5, MARSHALL 3 MARSHALL 4	1120 1120 562 660 660	8 18 8 8	88488	88888	2852 2852 2852 2852	88988	88888	8888	82888	52828	82688	82833	88844
TOTAL	4122	75	79	75	26	8	88	8	87	65	88	£	8
CATAWBA 1 CATAWBA 2 MCGUIRE 1 MCGUIRE 2 OCONEE 1 COONEE 2 COONEE 2	1129 1129 1129 1129 846 846	&8881808	8881818	850 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 20 20 20 20 20 20 20 20 20 20 20 20 20	0688888	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	57 0 26 8 6 0 11	8888000	28 4 86 00 0 0 0	8888000	8848280	8282828
TOTAL	7054	74	81	74	80	78	80	62	50	56	63	71	69
							İ						

NUCLEAR UNIT OUTAGE REPORT

REASON FOR OUTAGE AND CORRECTIVE ACTION	Oconee 1	Evaluate, Inspect & modify Moisture Separator Reheater Drain Line & associated piping. Evaluations & Modifications in progress.	Outage extended due to Moisture Separator Reheater Drain Line & Associated Piping Inspection & Modifications.	Repair "1A1" Reactor Coolant Pump High Vibration Problems. "1A1 Reactor Coolant Pump Motor was inspected and aligned.	Oconee 2	End of Cycle 15 Refueling and Maintenance Outage.	Additional Steam Generator Tubes were plugged based on inspection results.	Post Outage testing included Turbine Overspeed Trip Test.	Repair Control Rod Drive Group 7, Rod 3 shorted Stator. Shorted Control Rod Drive replaced and three position indication tubes replaced.	Repair '2B' High Pressure Injector Pump due to an electrical short. '2B' High Pressure Injector Pump Motor was replaced.	Second Stage Reheater Drain Line Rupture. Reactor and Turbine was manually tripped
HOURS/TYPE*		2658.43/S	476.92/s	81.28/F		841.00/S	29.35/F	2.35/s	78.70/F	72.23/F	2720.28/F
DATE ON		01/23/97	02/12/97	03/31/97		96/90/50	96/10/50	96/10/50	07/18/96	09/24/96	01/15/97
DATE OFF		10/04/96	01/23/97	03/28/97		03/28/96	96/90/50	05/07/96	07/15/96	09/21/96	09/24/96
NO.		r i	2.	က်		÷	2.	ë.	4.	ហ	. 9

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REASON FOR OUTAGE AND CORRECTIVE ACTION	Outage delay due to second stage Reheater Drain Line Rupture repair activities. Evaluation, modification & Testing was performed.	Oconee 3 End of Cycle 16 Refueling & Maintenance Outage.	Evaluate, Inspect & Modify Moisture Separator Reheater Drain Line & Associated Piping. Evaluation & Modification in progress.	Outage extended due to Moisture Separator Reheater Drain Line & Associated Piping Inspections and Modifications.	Turbine/Generator Manually tripped per integrated control system procedure of Post Outage Testing at this plateau.	Post Outage Turbine Load Rejection Test of Integrated Plant Control System completed at this plateau.	Reactor trip due to redundant trip confirm assembly. Failed fuse and electrical shorted connector replaced.	McGuire 1	Vital Batteries "EVCC" failed performance testing and were replaced.	End of Cycle 11 Refueling and Steam Generator replacement Outage.
HOURS/TYPE	454.10/F	1056.00/8	1787.43/S	1018.38/S	4.20/S	.20/s	27.80/F		253.85/F	1100.33/s
DATE ON	02/03/97	11/17/96	01/30/97	03/14/97	03/14/97	03/15/97	03/21/97		11/10/96	03/31/97
DATE OFF	01/15/97	10/04/96	11/17/96	01/30/97	03/14/97	03/15/97	03/20/97		10/31/96	02/14/97
NO.	7.	i,	2.	ë.	4	'n	. 6.		÷	2.

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	REASON FOR OUTAGE AND CORRECTIVE ACTION	McGuire 2	End of Cycle 10 Refueling Outage.	Reactor Coolant Pump tripped due to an electrical short in the "2B" Reactor Coolant Pump Motor. Reactor Coolant Pump Motors "2B", "2C", and "2D" were repaired and inspected.	Intermediate Power Range Detector 'N35' inoperable due to an electrical short. Replaced, Calibrated and tested the defective Power Range Detector.	Vital Batteries "EVCC" failed performance testing and were replaced.	Catawba 1	Misalignment of 2 control rods to control Bank 'A' during control rod movement performance testing. The electronic control rod firing card was replaced and tested.	End of Cycle 9 Refueling & Steam Generator Replacement Outage.	Outage extension due to Steam Generator welding problems. Steam Generator Replacement activities were completed.	Post-Outage Main Turbine Overspeed Trip Test was performed.
I	HOURS/TYPE*		946.55/8	922.24/F	84.00/F	285.93/F		68.42/F	2400/s	320.27/s	2.00/s
	DATE ON		05/14/96	06/29/96	07/03/96	11/12/96		05/11/96	09/20/96	10/04/96	10/04/96
	DATE OFF		04/02/96	05/22/96	06/29/96	10/31/96		96/80/50	06/12/96	09/20/96	10/04/96
	NO.		, i	2.	က်	4.		÷	2.	r.	4.

NUCLEAR UNIT OUTAGE REPORT

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REASON FOR OUTAGE AND CORRECTIVE ACTION	Reactor Coolant Pump "1D" #1 Seal Leakoff Line Weld failure. Section of piping with cracked weld was replaced.	Secondary Safety Protective System Main Steam Isolation Relay Failed During Surveillance Testing. Electrical Relay was replaced.	Catawba 2	Control Room ventilation inoperable due to ventilation fan motor failures. Fan Motors were replaced and systems tested.	Residual Heat Removal Pump Operability Concerns due to leakage on unseated Check Valve. Leakage allowed nitrogen to accumulate in the Residual Heat Removal System. Check Valves Reseated.	End of Cycle 08 Refueling and Steam Generator Replacement Outage.
HOURS/TYPE*	78.05/F	15.12/F		220.15/F	174.37/F	255.17/S
DATE ON	12/09/96	12/31/96		08/12/96	12/22/96	03/31/97
DATE OFF	12/06/96	12/30/96		08/03/96	12/14/96	03/21/97
NO.	'n	•		Ä	2.	er.

F=Forced S=Scheduled

FOSSIL UNIT OUTAGE REPORT (100 HOURS OR GREATER DURATION)

MONTH	則	NAME	HRS/TYPE*	REASON FOR OUTAGE AND CORRECTIVE ACTION
APR	96	Belews Creek 2 Belews Creek 2 Cliffside 5 Marshall 2 Marshall 3	276/S 132/F 119/S 220/S 166/S	Replace & modify boiler tubes Main Steam System Problems Combustion/Steam Condition Controls Boiler Inspections Boiler Inspections
MAY	96	Belews Creek J Cliffside 5 Marshall 4	1 167/s 497/s 175/s	Precipitator Problems Boiler Inspections Boiler Inspections
JUN	A	AUG 96 None		
SEP	96	Marshall 1 Marshall 2	414/S 244/S	Desuperheater/Attemperator Controls Turning Gear & Motor
0 C F	96	Belews Creek Marshall 1 Marshall 2	1 144/S 433/S 745/S	Electorstatic Precipitator Fouling Desuperheater/Attemperator Controls Turning Gear & Motor
NOV	96	lews Creek rshall 2	1 174/s 632/s	Electorstatic Precipitator Fouling Turning Gear & Motor
DEC	96	Belews Creek Belews Creek Marshall 4	1 187/S 2 179/F 235/S	Electorstatic Precipitator Fouling First Reheater Tube Leak Boiler Inspections
JAN	97	Belews Creek	2 164/F	Boiler Tube Leaks
E E E	97	Cliffside 5	108/8	Air Preheater Main Boiler plugging with Ash Air Preheater Wash down.
MAR	97	Belews Creek Marshall 1	1 120/F 128/S	Boiler Tube Leaks Boiler Inspections/Induced Draft Fan Controls
		Marshall 2	128/S	ler
Type*	 * *	S-scheduled	F-forced	D e

GENERATION MIX

PERCENTAGE

MONTH	YR -	FOSSIL	NUCLEAR	HYDRO
APRIL	96	51	47	2
MAY		51	48	1
JUNE		58	41	1
JULY		54	45	1
AUGUST		53	45	2
SEPTEMBER		49	50	1
OCTOBER		65	34	1
NOVEMBER		78	21	1
DECEMBER		65	32	3
JANUARY	97	69	29	2
FEBRUARY		59	38	3
MARCH		45	51	4

DOCKET NO. 97-005-E UTILITIES DEPARTMENT EXHIBIT NO. 4

DUKE POWER COMPANY

GENERATION STATISTICS OF MAJOR PLANTS

APRIL 1, 1996 - MARCH 31, 1997

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PLANT	TYPE FUEL	AVERAGE FUEL COST (¢/kwh)	GENERATION (MWH)	
Cliffside 5	Coal	1.56	3,189,672	
Belews Creek	Coal	1.28	14,836,003	
Marshall	Coal	1.19	9,536,272	
Oconee	Nuclear	0.53	12,317,973	
McGuire	Nuclear	0.48	15,119,128	
Catawba	Nuclear	0.47	15,719,717	

DOCKET NO. 97-005-E UTILITIES DEPARTMENT EXHIBIT NO. 5

DUKE POWER COMPANY
SOUTH CAROLINA RETAIL COMPARISON
OF ESTIMATED TO ACTUAL ENERGY SALES

	TOTAL	N/A	21,160,941	1	ı
	MARCH	N/A	2,019,756 1,923,306 1,684,032 1,592,146 1,705,062 1,793,742 1,802,987 1,549,243 21,160,941	ì	Î
	FEB	N/A	1,802,987	I	1
1997	JAN	N/A	1,793,742	1	1
	DEC	N/A	1,705,062	ŧ	t
	NOV	1,553,951	1,592,146	-38,195	-2.4
	OCT	2,028,511 1,912,465 1,725,270 1,553,951	1,684,032	41,238	4.4
	SEPT	1,912,465	1,923,306	-10,841	9.0-
	AUG	2,028,511	2,019,756	64,755	3.2
	משב	1,826,034	1,975,756	-149,722	-7.6
	JUNE	1,655,961 1,648,096 1,883,210 1,826,034	1,670,860 1,654,085 1,789,966 1,975,756	93,244	5.2
	MAY	1,648,096	1,654,085	-5,989	-0.4
1996	APRIL	1,655,961	1,670,860	-14,899	6-0-
		[1] ESTIWATED SALES [MMH]	[2] ACTUAL SALES [MMH]	[3] AMOUNT DIFFERENCE [1]-[2]	[4] PERCENT DIFFERENCE [3]/[2]

DUKE POWER COMPANY
SOUTH CAROLINA RETAIL COMPARISON
OF ESTIMATED TO ACTUAL FUEL COSTS
CENTS PER KWH

	MAR	. N/A	61 0.9361	1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000	ı
	FEB	N/A	08 0.84	00 1.00	l
1997	JAN	N/A	7 1.16	00 1.00	I
	DEC	7 N/A	5 1.189	0 1.000	1
	NOV	1.1452 1.0969 0.9539 0.9122 1.0157	1.1728 1.1326 1.0402 0.8576 1.1480 1.3135 1.1897 1.1608 0.8461	1.000	-22.7
	OCT	0.912	1.1480	1.0000	-20.5
	SEPT	0.9539	0.8576	1.0000	11.2
	AUG	1.0969	1.0402	1.0000	5.5
	JULY	1.1452	1.1326	1.0000	1:1
	JUNE	1.0664	1.1728	1.0000	-9.1
	MAY	1.0323 1.0274	0.9077 1.0514	1.0000 1.0000	-2.3
1996	APRIL	1.0323	0.9077	1.0000	13.7
		[1] ORIGINAL PROJECTION	[2] ACTUAL EXPERIENCE	[3] AMOUNT IN BASE	[4] VARIANCE FROM ACTUAL

ADJUSTMENT FOR FUEL COSTS

APPLICABILITY

This adjustment is applicable to and is a part of the Utility's South Carolina retail electric rate schedules.

The Public Service Commission has determined that the costs of Fuel in an amount to the nearest one ten-thousandth of a cent, as determined by the following formula, will be included in the base rates to the extent determined reasonable and proper by the Commission for the succeeding six months or shorter period:

 $F = \frac{E}{S} + \frac{G}{S_1}$

Where:

F = Fuel cost per kilowatt-hour included in base rate, rounded to the nearest one ten-thousandth of a cent.

E = Total Projected system Fuel costs:

(A) Fuel consumed in the Utility's own plants and the Utility's share of fuel consumed in jointly owned or leased plants. The cost of fossil fuel shall include no items other than those listed in Account 151 of the Commission's Uniform System of Accounts for Public Utilities and Licensees. The cost of nuclear fuel shall be that as shown in Account 518 excluding rental payments on leased nuclear fuel and except that, if Account 518 also contains any expense for fossil fuel which has already been included in the cost of fossil fuel, it shall be deducted from this account.

Plus

(B) Purchased power fuel costs such as those incurred in unit power and Limited Term power purchases where the fuel costs associated with energy purchased are identifiable and are identified in the billing statement.

Plus

(C) Interchange power fuel costs such as Short Term, Economy and other where the energy is purchased on economic dispatch basis.

Energy receipts that do not involve money payments such as Diversity energy and payback of storage energy are not defined as purchased or interchange power relative to this fuel calculation.

Minus

(D) The cost of fuel recovered through intersystem sales including the fuel costs related to economy energy sales and other energy sold on an economic dispatch basis.

Energy deliveries that do not involve billing transactions such as Diversity energy and payback of storage are not defined as sales relative to this fuel calculation.

S = Projected system kilowatt-hour sales excluding any intersystem sales.

G = Cumulative difference between jurisdictional fuel revenues billed and fuel expenses at the end of the month preceding the projected period utilized in E and S.

S₁ = Projected jurisdictional kilowatt-hour sales for the period covered by the fuel costs included in E.

The appropriate revenue-related tax factor is to be included in these calculations.

The fuel cost F as determined by SCPSC Order No. 96-367 for the period June 1996 through November 1996 is 1.000 cent per kilowatt-hour.

DUKE POWER COMPANY HISTORY OF CUMULATIVE RECOVERY ACCOUNT

	PERIOD EN	NDING - Automatic	Fuel	Adjustment	in	OVER (UNDER)\$ Effect
5	November	1979				1,398,442
	May 1980					11,322,948
	November	1980				4,588,331
	May 1981					(5,760,983)
	November	1981				(13,061,000)
	May 1982					(14,533,577)
	November	1982				(4,314,612)
	May 1983					20,915,390
	November	1983				14,192,297
	May 1984					18,245,503
	November	1984				14,478,363
	May 1985					2,551,115
	November	1985				(553,465)
	May 1986					(1,318,767)
	November	1986				(29,609,992)
	May 1987					(27,241,846)
	November	1987				(29,329,168)
	May 1988					(9,373,768)
	November	1988				6,544,914
	May 1989					6,067,739
	November	1989				11,372,399
	May 1990					15,421,968
	November	1990				2,939,303
	May 1991					17,068,483
	November	1991				21,265,000
	May 1992					21,080,856
	November	1992				11,553,801
	May 1993					16,959,555
	November	1993			,	221,606
	May 1994					6,609,897
	November	1994				1,037,659
	May 1995					5,088,619
	November	1995				(377,507)
	March 199	7				(13,299,613)

SOUTH CAROLINA RETAIL PROJECTIONS OF THE CUMULATIVE RECOVERY ACCOUNT FOR THE TWELVE MONTH PERIOD ENDING MAY 1998

	FUEL BASE	PROJECTED CUMULATIVE OVER\(UNDER) RECOVERY [\$]
	.8500	(36,216,891)
	.8750	(30,718,979)
	.9000	(25,221,067)
	.9250	(19,723,154)
	.9500	(14,225,242)
	.9750	(8,709,030)
CURRENT FACTOR >>	1.0000	(3,237,513)
COMPANY PROPOSED >>	1.0000	(3,237,513)
ZERO UNDER >>	1.0145	(20,531)
ZERO OVER >>	1.0148	52,252
	1.0250	2,286,794
	1.0500	7,784,707
	1.0750	13,282,619
	1.1000	18,780,531